

2004 Water Quality Assessment (Final) - Category 5 Listings for WRIA 12

WRIA	Listing ID	Category	98 List?	Waterbody Name Basis	Location Information				Parameter	Remarks	Medium	
12	42443	5	N	AMERICAN LAKE Seiders, 2004. shows the National Toxics Rule criterion was exceeded in Kokanee fillet samples collected 8/1/2002.	842SQS	15N	11E	05	2,3,7,8-TCDD		Tissue	
12	42168	5	N	AMERICAN LAKE Seiders, 2004. shows the National Toxics Rule criterion was exceeded in Kokanee fillet samples collected 8/1/2002.	329BEX	19N	02E	20	Dieldrin		Tissue	
12	42169	5	N	AMERICAN LAKE Seiders, 2004. shows the National Toxics Rule criterion was exceeded in Kokanee fillet samples collected 8/1/2002.	329BEX	19N	02E	20	Total PCBs		Tissue	
12	6288	5	Y	AMERICAN LAKE Completed Federal Clean Lakes Restoration Project in 1993 -Problems Encountered: toxic blue-green algal blooms which have resulted in animal poisonings and public health advisories. KCM, 1993. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 1 ug/L derived from the reported Carlson's Trophic State Index value which does not exceed the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	329BEX	19N	02E	20	Total Phosphorus	Phase II Federal Clean Lakes Restoration Project Grant for Watershed Management Plan was completed by July 1997. Control Measures Proposed - Phosphorus precipitation/inactivation, watershed nutrient management, volunteer monitoring.	Water	
12	16720	5	Y	CHAMBERS CREEK Hallock (2001) Dept. of Ecology Ambient Monitoring Station 12A070 (LOCATED AT CHAMBERS CREEK ROAD BRIDGE 1) shows a geometric mean of 19 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1995.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 12A070 (LOCATED AT CHAMBERS CREEK ROAD BRIDGE 1) shows a geometric mean of 23 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 3 samples collected during 1996.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 12A070 (LOCATED AT CHAMBERS CREEK ROAD BRIDGE 1) shows a geometric mean of 60 does not exceed the criterion and that 25% of the samples exceeds the percentile criterion from 8 samples collected during 1993.	DO71CI	1.488	20N	02E	99	Fecal Coliform		Water
12	7543	5	Y	CLOVER CREEK McCarthy, 1996. , 3 excursions beyond the criterion out of 5 samples (60%) at station 480 from 1991 to 1992;	FC86XG	0.267	19N	03E	45	Dissolved oxygen	During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments . Based on a review of monitoring studies for DO statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues to be impaired. (Braley, ECY/WQP, 2003)	Water

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1998	12	7545	5	Y	CLOVER CREEK	PS92IZ	11.027	19N	03E	47	Fecal Coliform	Water	Fecal coliform data were available only in hardcopy form. The water segment is listed as Category 5 based on the assessment.				
	McCarthy, 1996. , 4 excursions beyond the criteria out of 8 samples (50%) at station 360 from 1991 to 1992;																
1998	12	7547	5	Y	CLOVER CREEK	PS92IZ	6.487	19N	03E	42	Fecal Coliform	Water	Fecal coliform data were available only in hardcopy form. The water segment is listed as Category 5 based on the assessment.				
	McCarthy, 1996. , 7 excursions beyond the criteria out of 13 samples (53%) at station 430 from 1991 to 1992;																
1998	12	7548	5	Y	CLOVER CREEK	PS92IZ	2.126	19N	02E	48	Fecal Coliform	Water	Fecal coliform data were available only in hardcopy form. The water segment is listed as Category 5 based on the assessment.				
	McCarthy, 1996. , 4 excursions beyond the criteria out of 15 samples (27%) at station 500 from 1991 to 1992;																
1998	12	7549	5	Y	CLOVER CREEK	PS92IZ	0.546	19N	02E	11	Fecal Coliform	Water	Fecal coliform data were available only in hardcopy form. The water segment is listed as Category 5 based on the assessment.				
	McCarthy, 1996. , 5 excursions beyond the criteria out of 10 samples (50%) at station 602 from 1991 to 1992;																
reassessment	12	7553	5	Y	CLOVER CREEK	PS92IZ	0.546	19N	02E	11	Temperature	Water	This listing was placed on Category 2 in error, a				
	Hallock (2001) Dept. of Ecology Ambient Monitoring Station 12A110 (Clover Cr abv Steilacoom Lk) shows 4 excursions beyond the criterion out of 16 samples collected between 1993 - 2001 measured on these dates: 96/07/24, 96/08/21, 97/07/23, 97/09/23,																
					Johnson (1996) station 12A110 (LOCATED ON CLOVER CREST DRIVE JUST OFF G) shows 0 excursions beyond the criterion out of 4 samples collected between 08/95 - 10/95.												
					3 excursions beyond the criterion at USGS station 12090602 (at Gravelly Lake drive near Tacoma) in 1991.												
	12	3745	5	N	LEACH CREEK	GY44AY	0	20N	02E	27	Mercury	Water					
					Data from the Dept. of Ecology EIM database for the Project AJOH0023 (1995 CHAMBERS/CLOVER CR METALS) station LEACH (LEACH CREEK AT MOUTH (CHAMBERS CK)) shows 2 excursions beyond the criterion out of 2 samples collected between 08/95 - 10/95.												
	12	35829	5	N	PUGET SOUND (SOUTH)	390KRD	47122C5E6	47.245	122.565		Total PCBs	Tissue					
					Washington Department of Fish and Wildlife PSAMP database show the National Toxic Rule Criterion was exceeded in a composite of more than 5 muscle tissue tissue tissue tissue tissue samples collected in 1992-1993 from copper rockfish (Sebastes caurinus) samples from station DAYISLND.												

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12	6118	5	N	SPANAWAY LAKE Department of Ecology lakes monitoring data shows 3 of 3 (100%) daily maximum samples (collected 7/28/2003,8/25/2003, 9/22/2003) exceeded the percentile criterion in 2003. Samples were collected near Main Beach recreation area and reflects water quality conditions in this area only. Smith et al. (2000) shows 0 sample above the criterion out of 4 samples.	900AKK	19N	03E	20	Fecal Coliform		Water		
12	40866	5	Y	STEILACOOM LAKE Bennett and Cubbage, 1992, significant response on bioassays with Hyalella and Hexagenia.	425LMS	20N	02E	34	Sediment Bioassay		Sediment		
12	6374	5	Y	STEILACOOM LAKE State Phase I Clean Lakes Restoration Project -diagnostic/feasibility report submitted to Ecology. Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 39 ug/L from samples collected in 1981 which exceeds the water quality standards nutrient criterion for the Puget Lowlands Ecoregion.	425LMS	20N	02E	34	Total Phosphorus		Water		
12	7558	5	Y	UNNAMED CREEK (TRIBUTARY TO CLOVER CREEK AT 99TH STREET) McCarthy, 1996. , 5 excursions beyond the criteria out of 7 samples (71%) at station 380 (Unnamed Tributary to N.F. Clover Creek at 99th Street E.) from 1991 to 1992;	FP21BP	0.67	19N	03E	15		Fecal Coliform	Water	
										Fecal coliform data were available only in hardcopy form. The water segment is listed as Category 5 based on the assessment.			
12	5847	5	Y	UNNAMED CREEK (TRIBUTARY TO CLOVER CREEK AT BINGHAM AVE) McCarthy, 1996. , 2 excursions beyond the criteria out of 3 samples (67%) at station 340 (Unnamed tributary. to Clover Creek at Bingham Ave. E) from 1991 to 1992;	PS92IZ	14.482	19N		03E		23	Fecal Coliform	Water
										Fecal coliform data were available only in hardcopy form. The water segment is listed as Category 5 based on the assessment.			
12	5848	5	Y	UNNAMED CREEK (TRIBUTARY TO CLOVER CREEK AT BROOKDALE RD.) McCarthy, 1996, 2 excursions beyond the criteria out of 4 samples (50%) at station 395 (Unnamed tributary. to N.F Clover Creek at Brookdale Road) from 1991 to 1992. McCarthy, 1996, 5 excursions beyond the criteria out of 9 samples (55%) at station 400 from 1991 to 1992.	FP21BP	1.067	19N	03E	48		Fecal Coliform	Water	
										Fecal coliform data were available only in hardcopy form. The water segment is listed as Category 5 based on the assessment.			

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				Basis							
12	6323	5	N	WAPATO LAKE	195IMJ	20N	03E	29	Fecal Coliform	Water	
				Completed Federal Clean Lakes Restoration Project in 1981 - Problems Encountered: Blue-green algae, low dissolved oxygen, turbidity, sediment phosphorus recycling, storm water, low transparency, fecal coliform bacteria; Canning, et al. 1978; Metropolitan Park District of Tacoma, 1978.				Completed Phase II Restoration Project in 1987: Entrance Engineers, 1986; Control measures implemented based on			
								Phase I Study - phosphorus precipitation/inactivation, diversion, dilution/flushing, drawdown, structural storm water controls, public education.			
								Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment.			